

Appl. No.: 10/528,458
Reply to Office Action of: 02/11/2009

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) An anti-misinsertion mechanism for a card connector defining a correct card thickness, the mechanism comprising:

a body;

a first link generally extending along the body, the first link including an actuator ~~for actuating~~ adapted to actuate the first link ~~to be rotated by rotation~~ from a normal position toward an operating position upon detecting existence of the correct thickness of a partially-inserted card; and

a second link provided with a stopper ~~for~~ adapted to selectively ~~preventing~~ prevent full insertion of the card, the second link being pivoted to the body and operatively mechanically connected to the first link, thereby being rotatable between a normal position and an operating position relative to the normal and operating positions of the first link.

2. (Currently amended) The anti-misinsertion mechanism of Claim 1, wherein the second link is adapted to be rotated from the normal position to the operating position with the stopper being disabled in response to actuation of the actuator to allow full insertion of the card.

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3. (Original) The anti-misinsertion mechanism of Claim 1, further comprising recovering means for actuating the first link to be rotated toward the normal position.

4. (Currently amended) The anti-misinsertion mechanism of Claim 3, wherein the second link is adapted to be rotated toward the normal position with the stopper being enabled in response to the recovering means.

5. (Original) The anti-misinsertion mechanism of Claim 3, wherein the recovering means is a spring having a first end and a second end, the first and second ends being each biased against the first link and a fixed object to provide a torque for rotating the first link.

6. (Original) The anti-misinsertion mechanism of Claim 5, wherein the spring is positioned at a pivot located at the middle of the first link and the actuator is provided at a free end of the first link for detecting the existence or non-existence of the partially-inserted card.

7. (Original) The anti-misinsertion mechanism of Claim 1, wherein the first link and the second link are connected end-to-end together.

8. (Original) The anti-misinsertion mechanism of Claim 5, wherein the fixed object is a lid coupled to the body.

9. (Original) The anti-misinsertion mechanism of Claim 8, wherein the lid and the body are coupled to each other by at least one fastener.

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10. (New) A card connector comprising the anti-misinsertion mechanism of claim 1.

11. (New) An anti-misinsertion mechanism for a card connector, the mechanism comprising:

a body;

a first link generally extending along the body and pivotably connected to the body, wherein the first link comprises an actuator adapted to be contacted by a first card having a first thickness inserted into the card connector and thereby detect existence of a correct thickness of the first card, wherein the first link is adapted to be rotated by the first card from a normal position toward an operating position upon being contacted by the first card; and

a second link movably connected to the first link, wherein the second link comprises a stopper adapted to selectively prevent full insertion of a second card having a second different thickness into the card connector, wherein the second link is pivotably connected to the body and operatively mechanically connected to the first link, wherein the second link is rotatable between a normal position and an operating position relative to the first link.

12. (New) The anti-misinsertion mechanism of Claim 11, wherein the second link is directly connected to the first link.

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13. (New) The anti-misinsertion mechanism of Claim 11, wherein an end of the first link is connected to an end of the second link.

14. (New) The anti-misinsertion mechanism of Claim 13, wherein the end of the first link is located in a slot in the end of the second link.

15. (New) The anti-misinsertion mechanism of Claim 11, wherein the first link is located, at least partially, directly over the second link.

16. (New) The anti-misinsertion mechanism of Claim 11, wherein an actuator of the first link is adapted to be directly contacted by a lateral side edge of the first card to move the first link to the operating position.

17. (New) The anti-misinsertion mechanism of Claim 16, wherein the actuator of the first link is adapted to allow a second card having a smaller thickness than the first card to pass underneath the actuator without moving the actuator to the operating position.

18. (New) A card connector comprising:

a frame forming a card receiving slot; and

the anti-misinsertion mechanism of Claim 11 connected to the frame, wherein the actuator is located to be contacted and moved by a lateral side edge of the first card to its operating position when the first card is inserted into the card receiving slot, and wherein the actuator is located not to be moved to the operating

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position by the lateral side edge of the second card when the second card is inserted into the card receiving slot.

19. (New) A card connector comprising the anti-misinsertion mechanism of claim 11, wherein pivot connections of the first and second links to the body are parallel to each other and generally transverse to a direction of insertion of the card into the card connector.

20. (New) A card connector comprising:

a frame forming a card receiving slot;

an anti-misinsertion mechanism connected to the frame, the mechanism comprising:

a body;

a first link generally extending along the body and pivotably connected to the body,; and

a second link pivotably connected to the body and directly movably connected to the first link, wherein the second link comprises a stopper,

wherein the anti-misinsertion mechanism is adapted to allow full insertion of a first card having a first thickness into the card receiving slot by contact and movement of the first card with the first link and by movement of the second link by the first link, wherein the stopper is moved out of a path of insertion of the first card into the card receiving slot, and

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wherein the anti-misinsertion mechanism is adapted to prevent full insertion of a second card having a second relatively thinner thickness into the card receiving slot because of non-movement of the first link by the second card, wherein the stopper remains in a path of insertion of the second card into the card receiving slot to thereby prevent full insertion of the second card into the card receiving slot.